MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
SUMY NATIONAL AGRARIAN UNIVERSITY

Department of Management named by Professor L.I. Mykhailova

Faculty of Economics and Management

MODULE SYLLABUS

SC 10 MANAGEMENT OF SCIENTIFIC PROJECTS AND REGISTRATION OF INTELLECTUAL PROPERTY RIGHTS

status is mandatory

It is implemented within the educational program «Agronomics»
(name)

in the specialty H1 «Agronomics»
(code, name)

Qualification: Doctor of Philosophy
the third (educational and scientific) level of higher education

Sumy-2025

Author: _____ (Stoyanets N., D. of E.S., Professor)

Module syllabus agreed at the Department of Management named by Professor L.I. Mykhailova meeting	Protocol № 15 from 10.06.2025
	Head of Management Department named by Professor L.I. Mykhailova _____ (A. Oriekhova)

Approved by:
Guarantor of the Academic program _____ Andriy MELNIK

Dean of the Faculty _____ Olena BAKUMENKO

Head of the Department of Postgraduate and Doctoral Studies,
where the educational program
is implemented _____ Svitlana YAROSHCHUK
Syllabus review (attached) is provided by : _____ (_____)
_____ (_____)

Representative of the Department of Education Quality assurance,
licensing and accreditation _____ (Nadiya Buzko)

Registered in electronic data base 25.09 2025

1. MODULE OVERVIEW

1.	Title	MANAGEMENT OF SCIENTIFIC PROJECTS AND REGISTRATION OF INTELLECTUAL PROPERTY RIGHTS			
2.	Faculty/Department	Faculty of Economics and Management/ Management Department			
3.	Type	mandatory			
4.	Program(s) to which module is attached	Educational and professional program "Agronomics" in specialty H1 "agronomics"			
5.	Module can be suggested for (to be filled in for optional types)				
6.	Level of the National Qualifications Framework	the third (educational and scientific) level of higher education Doctor of philosophy			
7.	Semester and duration of module	1th semester, 10 weeks			
8.	ECTS credits number	4			
9.	Total workload and time allotment	Directed study			Self-directed study
		Lectures	Practicals	Labs	
		20	20		80
10.	Language of instruction	English			
11.	Module leader	Stoyanets Nataliya – D.of E.S., Professor, Professor at the Management Department Hours of consultations - every Tuesday at 12.15, room 303 e			
12.	Module leader contact information	Natalystoyanez@gmail.com			
13.	Module description	The educational component “Management of scientific projects and registration of intellectual property rights” is aimed at mastering the necessary basic components of project management by candidates for the degree of Doctor of Philosophy: building the organizational structure of the project team, directions and content of project structuring, the essence of planning, features of project budget planning. The educational component provides for highlighting the features of control and assessment of project work, approaches to ensuring quality requirements, project risk management, and contains theoretical tasks for task control.			
14.	Module aim	The purpose of the educational component is to prepare candidates for the degree of Doctor of Philosophy to carry out scientific and project activities, familiarize them with the strategy and tactics of implementing the strategy of a scientific project, provide knowledge about the methodology, techniques and tools of research and preparation of sections of a scientific project, aspects of implementing the results obtained. Involvement of candidates for the degree of Doctor of Philosophy in the analysis of information sources, organization of scientific activities and opportunities for testing a scientific project.			
15.	Module Dependencies	is the formation and development of a scientific outlook and the			

	(prerequisites, co-requisites, incompatible modules)	scientific creativity of the researcher - graduate student and students' acquisition of skills and competencies to set scientific tasks, plan their implementation, organize the collection and processing of information, create conditions for the generation of new ideas and their practical implementation. 1. The educational component is based on the study of the OK: "Philosophy of Science" 2. The educational component is the basis for the study of the OK: "Modern information technologies in scientific activity."
16.	The policy of academic integrity	According to the Code of Academic Integrity of Sumy NAU, academic integrity is a set of principles, rules of conduct of participants in the educational process, aimed at forming an independent and responsible personality, able to solve problems in accordance with the educational level in accordance with law and public morality. Academic integrity of applicants for higher education involves independent performance of educational tasks, tasks of current and final control, learning outcomes. It is expected that higher education students will adhere to the principles of academic integrity, aware of the consequences of its violation, which is determined by the regulations of Sumy National Agrarian University, including the Code of Academic Integrity, Regulations on Prevention and Detection of Academic Plagiarism in Sumy NAU. https://snau.edu.ua/viddil-zabezpechennya-yakosti-osviti/zabezpechennya-yakosti-osviti/akademichna-dobrochesnist/). For violation of academic integrity, applicants for higher education may be held subject to such academic liability, namely: - academic fraud (use of the telephone when writing written works) will lead to re-submission of work; - write-off - from the first warning to cancel the job; - plagiarism will cancel the job
	keywords:	project management, strategic planning, project life cycle, project team, risk management, resource allocation, patents, copyrights, intellectual property law, IP protection.
17	Link in Moodle	https://cdn.snau.edu.ua/moodle/course/view.php?id= 5999

2. CORRELATION BETWEEN MODULE LEARNING OUTCOMES (MLOs) AND PROGRAM LEARNING OUTCOMES (PLOs)

MLOs: **On successful completion of the module the learner will be able to:**	**PLOs** PLO4	**How assessed**
MLOs 1. Know the theoretical essence, general characteristics and justification of the feasibility of managing scientific projects.	x	Multiple-choice tests, writing essays in oral format
MLOs 2. Predict modern trends in planning resources, costs and the project budget, taking into account its structuring. Understand the technology for assessing project activities, taking into account	x	Presentation preparation,

planning resources, costs of the project budget		
MLOs 3 Solve complex specialized tasks and practical tasks in the field of international scientific and technical cooperation of the European Union and Ukraine in the context of projects and programs	x	Multiple-choice tests, writing essays in oral format
MLOs 4. Understand the acquired knowledge, subject area, using the theoretical basis for organizing the structure of a scientific project and general approaches to planning and their control	x	Individual task, project

3. MODULE INDICATIVE CONTENT

Topic. List of issues to be considered within the topic	Distribution of hours			Learning resources
	Directed study		Directed study	
	Lectures	Practicals	Lectures	
TOPIC 1. GENERAL CHARACTERISTICS OF PROJECT MANAGEMENT 1. Project and the specifics of project activities. 2. Types of scientific projects. 3. Scientific project management. 4. Project life cycle. 5. Characteristics of a project manager. Topic 2. Project Management Body of Knowledge (7th edition) and Project Management Standard 1. Evolution of the Project Management Body of Knowledge: How has the project management standard changed? 2. The role of PMI in the development of the project management profession 3. Fundamentals of the Project Management Body of Knowledge (7th edition): The transition from processes to principles Modern challenges and prospects in the project management profession	2	2	5	1-2
Topic 3. Value delivery system 1. Value creation. 2. Organizational governance systems. 3. Functions related to projects. 4. Project Environment. 5. Product Management Considerations			5	1-2
Topic 4. Project Management Principles 1. The 4 Values Underpinning the PMI	2	2	5	1-2

Code of Ethics and Professional Conduct 2. Be a Diligent, Respectful, and Caring Steward 3. Create a Collaborative Environment for the Project Team.. 4. Effectively Engage Stakeholders 5. Focus on Value.. 6. Recognize, Evaluate, and Respond to System Interactions 7. Demonstrate Leadership Behavior 8. Adapt to Context. 9. Build Quality into Processes and Deliverables 10. Overcome Complexity 11. Optimize Risk Response 12. Choose Adaptability and Resilience 13. Enable Change to Achieve the Envisioned Future State				
Topic 5. Ukrainian National Science Competitions. 1. Competition of projects of fundamental scientific research, applied scientific research and scientific and technical (experimental) developments of young scientists. 2. Competitive selection of scientific and technical (experimental) developments by state order. Competitions of the National Research Fund.			5	1-2
Topic 6. Horizon Europe and Erasmus+ annual competitions 1. Horizon Europe Pillar 1 – Excellent science. 2. Horizon Europe Pillar 2 – Challenges; 3. Horizon Europe Pillar 3 – Innovative Europe 4. ERASMUS+ PROJECTS KA2 AND ERASMUS+ JEAN MONNET	2	2	10	1-2
Topic 7. Acquisition and registration of rights to inventions and utility models under the Law of Ukraine "On the Protection of Rights to Inventions and Utility Models" 1. Objects of invention under the Law of Ukraine "On the Protection of Rights	2	**2**	10	3, 4, 5,

to Inventions and Utility Models". 2. Inventive and search work during the creation of an invention. 3. Legal and organizational foundations of patenting an invention. 4. Registration and issuance of a patent.				
Topic 8. Acquisition and registration of rights to industrial designs under the Law of Ukraine "On Protection of Rights to Industrial Designs" 1. Objects of an industrial design under the Law of Ukraine "On Protection of Rights to Industrial Designs". 2. Conditions for granting legal protection to an industrial design. 3. Rules for drawing up and submitting an application for an industrial design. 4. Rules for considering an application for an industrial design.			10	5
Topic 9. Registration of copyright and related rights 1. Objects of copyright under the Law of Ukraine "On Copyright and Related Rights". 2. State registration of copyright and related rights. 3. Types of copyright registrations. 4. Essence and features of related rights			10	3-5
Topic 10. Features of intellectual property in the digital society. Legal protection of modern digital technologies 1. Digital society. General concepts of the digital economy and the main directions of its transformation. 2. Technologies in the field of data processing. Technologies in the field of production. 3. Main directions of digitalization of the economy of Ukraine			10	3-5
Topic 11. Basic provisions of patent legislation of foreign countries 1. Legal protection of inventions of foreign countries 2. Legal regulation of trademarks in foreign countries	2	2	10	3-5
In total	20	20	80	

4. TEACHING AND LEARNING METHODS

MLOs	Teaching methods (directed study)	Hours	Learning methods (self-directed study)	Hours
MLOs 1. Know the theoretical essence, general characteristics and justification of the feasibility of managing scientific projects.	Lecture, practical occupation, discussion relevant issues	10	Independent work with the textbook, performance of individual tasks	20
MLOs 2. Predict modern trends in planning resources, costs and the project budget, taking into account its structuring. Understand the technology for assessing project activities, taking into account planning resources, costs of the project budget	Problem lecture, thematic discussion, analysis of specific situations (Case-study)	10	Independent work with the textbook, performance of individual tasks	20
MLOs 3 Solve complex specialized tasks and practical tasks in the field of international scientific and technical cooperation of the European Union and Ukraine in the context of projects and programs	Problem lecture, thematic discussion, analysis of specific situations (Case-study)	10	Independent work with the textbook, performance of individual tasks	20
MLOs 4. Understand the acquired knowledge, subject area, using the theoretical basis for organizing the structure of a scientific project and general approaches to planning and their control	Problem lecture, thematic discussion, "round table", "Brainstorming".	10	Independent work with the textbook, performance of individual tasks	20
Total		40		80

5. ASSESSMENT

5.1. Diagnostic assessment

5.2. Summative assessment

5.2.1. Intended learning outcomes methods:

№	Summative assessment methods	Grades	Deadline
	Testing	20/20%	During the semester
	Multiple choice test (intermediate certification)	15/15%	On the 7th week
	IT (individual tasks for classroom work; individual tasks for independent performance)	35/35%	At the end of each practical session; on the 14th week
	Exam (by tickets)	30/30%	According to the schedule of the session

5.1.1. Grading criteria

Summative assessment method	**Unsatisfactory**	**Satisfactory**	**Good**	**Excellent**
Testing	*< 12 points*	*12-14 points*	*15-17 points*	*18-20 points*
	the correct answer was provided for less than 60% of the tasks	*the correct answer was provided for 60%-74% of the tasks*	*75% - 89% of tasks were answered correctly*	*90% or more tasks were answered correctly*
Multiple choice test (intermediate certification)	*< 8 points*	*8-10 points*	*11-13 points*	*14-15 points*
	< 5 correct answer	*5-6 correct answer*	*7-8 correct answer*	*9-10 correct answer*
Individual tasks	*< 20 points*	*20-26 points*	*27-30 points*	*31-35 points*
	Task requirements not met	*Most of the requirements are met, but some components are missing or insufficiently disclosed.*	*All requirements of the task have been fulfilled.*	*All the requirements of the task were fulfilled, the results were presented as part of a general discussion.*
Exam (by tickets)	*< 20 points*	*20-24 points*	*25-27 points*	*28-30 points*
	Task requirements not met	*Most of the requirements are met, but some components are missing or insufficiently disclosed.*	*All requirements of the task have been fulfilled.*	*All the requirements of the task were fulfilled, the results were presented as part of a general discussion.*

Formative assessment

Formative exercises are designed to enable students to develop particular aspects of their learning, prior to summative assessments. Formative exercises are designed to help students use feedback and self-reflection to manage and develop their learning so that they can see how to improve their work.

№	**Formative Assessment elements**	**Date**
1	Testing in Google Forms, Kahoot, Quizizz	At each practical lesson (introductory control)
2	Oral feedback from the teacher and students on the implementation of individual calculation and analytical tasks	For 5 weeks
3	Oral feedback from the teacher and students on the performance of an individual task on the main types of empirical social research	For 10 weeks
4	Oral feedback from the teacher and students on the implementation of the individual task of choosing sociometric criteria	For 15 weeks
5	Oral feedback from the teacher and students on the project implementation (preparation, presentation, defense)	For 18 weeks

Self-assessment can be used as an element of summative assessment and formative assessment.

6. LEARNING RESOURCES

6.1.Key resources

6.1.1. Textbooks, manuals

1. Martina Huemann and Rodne. The Handbook of Project Management Sixth Edition Edited by y Turner 2024
by Routledge 4 Park Square, Milton Park, Abingdon, Oxon, OX14 4RN https://rpitst.com/img/ebook/1711029511_630733f488172765377f.pdf
2. Md. Awal Hossain Mollah Handbook of Project Management: Principles and Techniques 2021 Publisher: Scholars' PressI University of Rajshahi SBN: 978-613-8-95196-4 https://www.researchgate.net/publication/350516240_Handbook_of_Project_Management_Principles_and_Techniques
3. Prof. Rupinder Tewari Ms. Mamta Bhardwaj Intellectual Property A Primer for Academia Publication Bureau
Panjab University Chandigarh. https://dst.gov.in/sites/default/files/E-BOOK%20IPR.pdf
4.SELECTED ONLINE READING AND LIBRARY INFORMATION SOURCES ON INTELLECTUAL PROPERTY LAW http://www.epgencms.europarl.europa.eu/cmsdata/upload/8edf0d4b-03b7-4a5e-b0d5-5c3bc68f8900/Selected_reading-Intellectual_Property_Law.pdf
5.Intellectual Property (IP) Handbook Providing IP Guidance through the EEN Client Journey
An easy-to-consult guide for EEN advisors https://www.eenbasque.net/wp-content/uploads/2024/01/ip_guide_een_final.pdf

1. Stoyanets , N. (2024). MANAGEMENT OF INNOVATIVE DEVELOPMENT OF ENTERPRISES UNDER GLOBALIZATION CHALLENGES. Economy and Society, (60). https://doi.org/10.32782/2524-0072/2024-60-86
2. . Vasilyeva T.A., Kuzmenko O.V., Stoyanets N.V., Artyukhov A.E., Bozhenko V.V., (2022) "The Depiction of Cybercrime Victims using Data Mining Techniques" Naukovyi Visnyk Natsionalnoho Hirnychoho Universytetu, 2022, No 5 P.169 -173 ISSN 2071-2227, E-ISSN 2223-2362, https://doi.org/10.33271/nvngu/2022-5/174
3. . Hejun Zhao, Stoyanets Nataliya, Guohou Li (2021) Aplication of big data analysis in path planning of intelligent picking robot INMATEH Vol. 65, No. 3 https://www.researchgate.net/publication/358390890_APPLICATION_OF_BIG_DATA_ANALYSIS_IN_PATH_PLANNING_OF_INTELLIGENT_PICKING_ROBOT
4 .Stoyanets, N. (2024) ASSESSMENT OF THE POTENTIAL OF MANAGEMENT OF INNOVATIVE ACTIVITIES OF ENTERPRISES IN THE CONTEXT OF SUSTAINABLE DEVELOPMENT Науково-виробничий журнал «Бізнес-навігатор» Випуск 2 (75) 2024 DOI: https://doi.org/10.32782/business-navigator.75-58

International specialized search engines

http://info.studyweb.com – a specialized search system for educational resources http://infomine.ucr.edu – a virtual library of electronic publications http://searchenginewatch.com/links/Specialty_Search_Engines – a catalog of specialized search engines

http://www.sciseek.com – search for scientific information Ukrainian specialized search systems

http://meta-ukraine.com/ Meta is a Ukrainian search engine with a wide search system for various topics, including a selection of electronic dictionaries.

English-language search engines

http://www.yahoo.com/ - an English-language search engine with the most developed structure of catalogs and various services. Hundreds of thousands of different Internet resources are manually sorted by 14 main headings, each of which has several subheadings with narrower topics.

http://www.lycos.com/ - Lycos includes a huge database with more than 66 million URLs. This search engine (in English) contains a variety of interesting information, including news, node reviews, links to popular nodes, city maps, as well as tools for finding addresses of different people and searching for web images and sound clips.